

and clean copy.

In the claims:

Cancel claims 2 and 20.

Please amend claims 1 and 3 to 19. A marked up version of the amended claims ( attachment B ) is provided herewith as well as a clean version ( attachment C ) of the claims after amendment. The new marked up version does not incorporate the cancelled claims 2 and 20. The clean copy, renumbered as claims 1 through 18, does not include the new claims 21 and 22 which are provided on a separate attachment D.

Please add new claims 21 through 22. A separate copy of the new claims on clean copy is provided ( attachment D ). Note that in the earlier amendment new claim 23 was inadvertently added. Only claims 21 and 22 are added which become claims 19 and 20 in the renumbered version.

Applicant has made every effort to comply with the requests made in the Notice of July 18, 2002 insofar as they are understood. If the Legal Instruments Examiner should find any minor matter overlooked she is requested to call the undersigned so that the matter can be taken care of by an immediate filing.

Claims 3,4,5,7,10,11,13,14,16and 17 and their dependants were rejected under 35 U. S. C. 112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter regarded as the invention. All these claims have been amended and now the objectional portions have either been deleted or corrected as noted in the separate sheet of amended claims.

The Examiner has rejected initial claims 1-13, 16 and 20 as unpatentable under 35 U. S. C. 103(a) over the Japanese reference 2000080356. This reference is unrelated to what applicant has invented. The Japanese disclosure speaks of a spray agent for preventing coal dust formation in outdoor coal storage yards which consists of an ethylene-vinyl acetate copolymer emulsion with a synthetic wax therein. It later mentions paraffin wax. The Examiner admits that the Japanese reference does not speak of the optimum range nor does it teach the claimed method. It is urged that these positions are not well taken and are not sustainable. The Japanese reference is made primarily of ethylene vinyl acetate copolymer. The instant invention has from 0 to 20 % polyvinyl acetate. The Japanese reference is not a chemical change agent nor does it speak of such use....it is not contemplated. Again, the Japanese reference is merely an ethylene vinyl acetate copolymer emulsion. It is a binder formed by the use of the copolymer. This material forms a film that is strong enough to glue to bind the ores together. Conversely, the instant invention has a purpose to chemically change the chemical bond structure inherent to coals. This is not just a surface treatment. Accordingly, the rejection based on the Japanese reference should be withdrawn as inapplicable.

The Examiner has rejected claims 1-11 and 13-15 under 35 U.S.C.103(a) as being unpatentable over Borenstein. The Examiner states that Borenstein teaches an aqueous emulsion comprising paraffinic was, monan wax and polyvinyl alcohol. He goes on to state that the water makes up from 35 to 85% of the composition which also contains alkali metal or amonium hydroxides stabilizers. He continues by reciting that the polyvinyl alcohol is at least 90% hydrolyzed polyvinyl acetate. The Examiner admits that Borenstein does not teach applicant's intended use but says it makes no difference in a composition claim. The Examiner also admits that Borenstein does not teach the claimed method but says it would be "reenable" (sic, perhaps "reasonable"?) to expect that the composition of Borenstein would assist complete combustion of the material since the methods steps are the same?? He further states that a "skilled artisan" would recognize how to ....either apply the composition..or obtain applicant's result?...it is not clear. It is noted that Borenstein's patent is for an additive for a gypsum composition, namely, an emulsion to improve the water resistance of gypsum compositions. He does not mention coal and the Examiner admits this. Neither does Borenstein discuss chemical change in the bonds of the material. At best, it is a former of films that is incorporated into a mixture of chemicals that make up gypsum products. While there may be some innocent similiarity the differences in applicant's composition are what is necessary to provide the changes in the FTIR reading to meet IRS Code Section 29 dealing with synthetic fuels. When coal is treated with the instant invention it becomes a "synthetic fuel" under the definition. Borenstein does not contain polyvinyl acetate which is in the instant invention. Further, Borenstein requires the use of hydrolyzed

polyvinyl acetate ( 90% hydrolyzed ) which is not required in the instant invention.

Thus it is seen that the composition of Borenstein would not work in the same way as the instant invention.

As far as the other references cited are concerned, the Bennet patent is for a material to be sprayed on coal and coke to reduce dust therein. The material used is a lignosulfaonate compound which is not present in the instant invention. Bennett does not discuss chemical change. Ranke's patent is directed to a blend of chemicals, not an emulsion and the properties are not similar. Consequently, neither Bennett or Ranke are applicable.

The new claims 21-23 distinguish from the art of record and are fully supported in the specification and present a condensed version of the synfuel additive. The claims as amended continue to define over the prior art as claim 1 calls for facilitation of chemical bonding, something not contemplated by the prior art. The exact percentages have been amended in claims 4, 5, 10, 18 and 19. Claims 2 and 20 have been cancelled. Claim 13 has had the part of the Code of Federal Regulations added to it to make it definite.

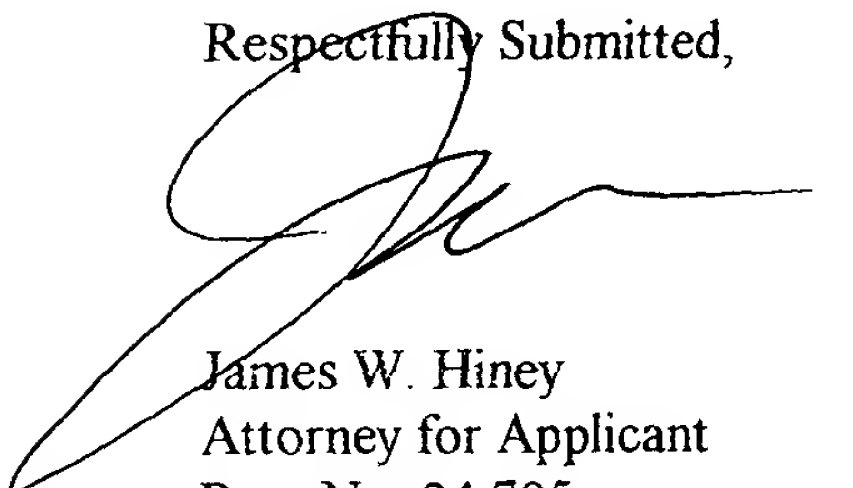
Two checks are submitted herewith, one for the amount for a small entity Request for a Three Month Extension of Time in Which to Respond and a check for one additional independent claim represented by claim 21.

It is requested that the Mail Room deposit the self-addressed stamped post card with the Postal Service after stamping it with their receipt stamp.

It is also requested that the Examiner call the undersigned before acting on the application in order to arrange for an interview with the undersigned and the inventor.

Accompanying this Response is a Request for an Additional Three Months in which to respond to the Office action of January 2002.

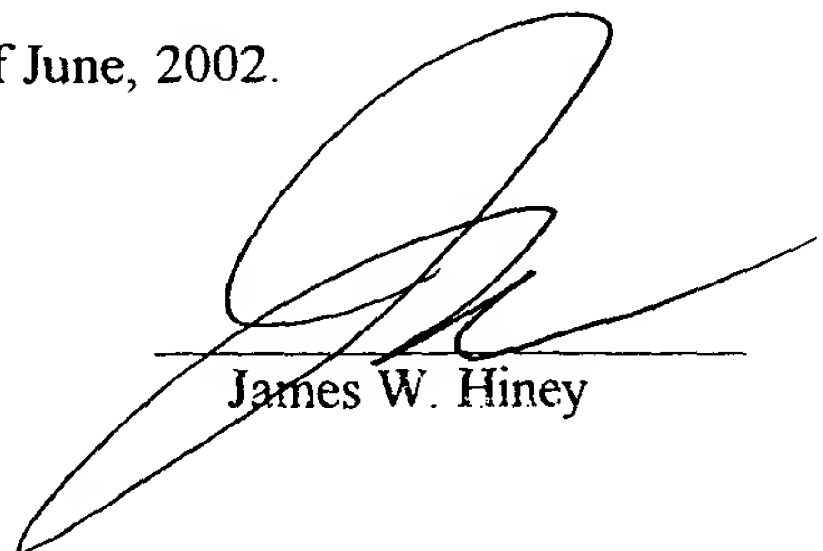
Respectfully Submitted,



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**Certification of Mailing**

I, James W. Hiney, do hereby certify that an executed copy of this Response, together with a Request for a Three Month Extension of Time in Which to Respond, and two checks, were deposited, Express Mail Postage Prepaid, with the United States Postal Service, this 24<sup>th</sup> day of June, 2002.



James W. Hiney